Contents of Aquaculture, Volume 140

VOL. 140 NOS. 1-2 15 MARCI	I 1996
Introduction	
Atalone Aquaculture	
A.E. Fleming (Parkville, Vic., Australia) and P.W. Hone (Henley Beach, S.A., Australia)	1
Artificial Diets and Nutrition	
The development of artificial diets for abalone: A review and future directions	
A.E. Fleming (Parkville, Vic., Australia), R.J. Van Barneveld (Adelaide, SA, Australia) and P.W.	
Hone (Henley Beach, SA, Australia)	5
Effect of dietary protein level on growth performance of South African abalone, Haliotis midae, fed fishmeal-based semi-purified diets	
P.J. Britz (Grahamstown, South Africa)	55
The suitability of selected protein sources for inclusion in formulated diets for the South African abalone, Haliotis midae	
P.J. Britz (Grahamstown, South Africa)	
Comparative growth performance and digestive enzyme activity of juvenile South African abalone, Haliotis midae, fed on diatoms and a practical diet	
J. Knauer, P.J. Britz and T. Hecht (Grahamstown, South Africa)	75
M.T. Viana, L.M. López, Z. García-Esquivel and E. Mendez (Ensenada, BC, México)	87
Studies on the feeding attractants for fishes and shellfishes. XXVI. Probable feeding attractants in allspice Pimenta officinalis for black abalone Haliotis discus	
K. Harada, T. Miyasaki (Nagata Hon'machi Shimonoseki, Japan), S. Kawashima and H. Shiota	
(Osaka, Japan)	. 99
The composition and amino acid balance of abalone (Haliotis rubra) tissue	
R.H. King (Werribee, Vic., Australia), C.J. Rayner, M. Kerr (East Melbourne, Vic., Australia),	
H.K. Gorfine and P.E. McShane (Queenscliff, Vic., Australia)	. 109
Effect of diet on the lipid composition of wild and cultured abalone	
G.A. Dunstan, H.J. Baillie, S.M. Barrett and J.K. Volkman (Hobart, Tasmania, Australia)	. 115
Postlarval Culture	
Boundary layers and abalone postlarval culture: Preliminary studies	
R. Searcy-Bernal (Ensenada, BC, México and San Diego, CA, USA)	. 129
Husbandry	
Infestation of Haliotis rufescens shells by a sabellid polychaete	
F.R. Oakes and R.C. Fields (Cayucos, CA, USA)	
The effect of four anaesthetics on Haliotis midae and their suitability for application in commercial abalone culture	1
U.I. White T. Hecht and R. Poteieter (Grahamstown, South Africa)	. 14

Effect of recombinant vertebrate growth hormones on growth of adult abalone, Haliotis kamtschatkana B.E. Taylor, D.A. Donovan (Vancouver, BC, Canada), E. McLean, E.M. Donaldson (West Vancouver, BC, Canada) and T.H. Carefoot (Vancouver, BC, Canada)	153
Tropical Abalone	
A review of the culture of tropical abalone with special reference to Thailand	
P. Jarayabhand and N. Paphavasit (Bangkok, Thailand)	159
System Design	
Growth and survival of the blue abalone Haliotis fulgens in barrels at Cedros Island, Baja California, with a review of abalone barrel culture	
J.G.G. Aviles (Ensenada, BC, México) and S.A. Shepherd (Henley Beach, SA, Australia)	169
Preliminary studies on increased survival and accelerated growth of overwintering juvenile abalone,	
Haliotis discus hannai Ino	
Z.Q. Nie (Fuzhou City, PR China), M.F. Ji and J.P. Yan (Qingdao City, PR China)	177
Marketing	
The abalone market: Opportunities for cultured abalone	
F.R. Oakes and R.D. Ponte (Cayucos, CA, USA)	187
VOL. 140 NO. 3 30 MARCH	1996
Review	
Application of fluorescence in situ hybridization (FISH) techniques to fish genetics: a review	
R.B. Phillips and K.M. Reed (Milwaukee, WI, USA)	197
Diseases, Parasites and Predators	
Field trials on the efficacy of the organophosphorus compound azamethiphos for the control of sea lice	
(Copepoda: Caligidae) infestations of farmed Atlantic salmon (Salmo salar) M. Roth, R.H. Richards (Stirling, UK), D.P. Dobson (Cambridge, UK) and G.H. Rae (Perth, UK).	217
Biofilm formation by Vibrio harveyi on surfaces	
I. Karunasagar, S.K. Otta and I. Karunasagar (Mangalore, India)	241
Physiological characterization of Saprolegnia parasitica isolates from brown trout J. Diéguez-Uribeondo, L. Cerenius and K. Söderhäll (Uppsala, Sweden)	247
The relative susceptibility of fish to infections by Flexibacter columnaris and Flexibacter maritimus	241
M. Soltani, B.L. Munday and C.M. Burke (Launceston, Australia)	259
Physiology and Endocrinology	
Application of controlled-release, GnRHa-delivery systems in commercial production of white bass ×	
striped bass hybrids (sunshine bass), using captive broodstocks	
C.C. Mylonas (Maryland, MD, USA), Y. Magnus (Menashe, Israel), A. Gissis (Hamaapil, Israel),	
Y. Klebanov (Menashe, Israel) and Y. Zohar (Maryland, MD, USA)	265
Aspects of the reproductive biology of the sharpsnout seabream Diplodus puntazzo (Cetti, 1777). I.	
Gametogenesis and gonadal cycle in captivity during the third year of life	
V. Micale, F. Perdichizzi (Messina, Italy) and G. Basciano (Marsala, Italy)	281
Aquacultural Engineering Society	293
VOL. 140 NO. 4 30 APRI	L 1996
Review	
Fish culture in rainfed rice fields of northeast Thailand	
D.C. Little (Bangkok, Thailand), P. Surintaraseree (Bangkok, Thailand; Quebec, Canada) and N.	
Innes-Taylor (Bangkok, Thailand)	

Contents of	f Aquaculture.	Volume	140

Diseases, Parasites and Predators	
Efficacy of formalin, hydrogen peroxide, and sodium chloride on fungal-infected rainbow trout eggs T.M. Schreier, J.J. Rach and G.E. Howe (La Crosse, WI, USA)	323
Genetics and Breeding	
Genetic and environmental variances of body size and morphological traits in communally reared clonal lines from gynogenetic diploid ayu, Plecoglossus altivelis	
N. Taniguchi, M. Yamasaki, M. Takagi (Kochi, Japan) and A. Tsujimura (Wakayama, Japan)	333
Nutrition	
Comparison of two assay methods for determination of nutrient and energy digestibility in fish A. Aksnes, T. Hjertnes and J. Opstvedt (Bergen, Norway)	343
Digestibility of starch in <i>Penaeus vannamei</i> : in vivo and in vitro study on eight samples of various origin	
M. Cousin, G. Cuzon (Tahiti, French Polynesia), J. Guillaume (Plouzané, France) and AQUACOP (Tahiti, French Polynesia)	361
Physiology and Endocrinology	
Effects of temperature change rate on nitrogen effluxes of Macrobrachium rosenbergii (DeMan)	

389

387

A.S.C. Schmitt and R.F. Uglow (Kingston upon Hull, UK)	373
Book Reviews	
Biochemistry and molecular biology of fish	383

Aquaculture																											38.
Announcement							•			 . ,	. ,	. ,	 	. ,						. ,	. ,	 				,	38

Aquacultural Engineering Society .									 						 		4	386